

according to 2001/58/EC

LCK 541 Nitrit/Nitrite, MicroCap; 1/2

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

LCK 541 Nitrit/Nitrite, MicroCap; 1/2

Use of the substance/preparation

Water analysis

Company/undertaking identification

Company name : HACH LANGE GmbH
Street : Willstätterstr. 11
Place : D-40549 Düsseldorf

e-mail : Telephone : +49(0)2115288-0

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Pacific Way

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HACH LANGE Ltd.

Unit 1, Chestnut Road Western Industrial Estate

Dublin 12 - Ireland Tel. +353 (0)1 4602522 e-Mail: info@hach-lange.ie

2. Composition/information on ingredients

Chemical characterization (preparation)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
200-711-8	69-65-8	D(-)-Mannitol	> 70%	
232-677-5	9004-54-0	Dextran	< 20 %	
215-185-5	1310-73-2	caustic soda, sodium hydroxide	< 0,1 %	C R35

Full text of each relevant R phrase can be found in heading 16.

3. Hazards identification

Classification

The product does not need to be labelled in accordance with EC directives or respective national laws.

4. First aid measures

General information

Take off all contaminated clothing immediately.

After inhalation

Move to fresh air.

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.



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After ingestion

Clean mouth with water and drink afterwards plenty of water.

Consult a physician. Show this safety data sheet to the doctor in attendance.

Advice to doctor

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Fire may liberate hazardous vapours.

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Personal precautions

Use personal protective equipment.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up/taking up

Use mechanical handling equipment.

After cleaning, flush away traces with water.

7. Handling and storage

Handling

Advice on safe handling

Use only in well-ventilated areas.

Do not breathe vapours/dust.

Storage

Requirements for storage rooms and vessels

Keep tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS No.	Substance	ml/m³	mg/m³	F/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

Exposure controls



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Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wash hands before breaks and after work.

Hand protection

Use barrier skin cream.

Chemical resistant protective gloves

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

Eye protection

Safety glasses with side-shields

Skin protection

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

9. Physical and chemical properties

General information

Physical state : solid
Colour : white
Odour : odourless

Important health, safety and environmental information

Test method

8

Changes in the physical state

Flash point : not applicable
Lower explosion limits : not applicable
Upper explosion limits : not applicable
completely soluble

10. Stability and reactivity

Conditions to avoid

No dangerous reaction known under conditions of normal use.

Materials to avoid

acids

oxidizing agents

11. Toxicological information

Acute toxicity

No data is available on the product itself.

Specific effects in experiment on an animal

No data is available on the product itself.

12. Ecological information

Ecotoxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

13. Disposal considerations



according to 2001/58/EC

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Advice on disposal

Our local agencies will accept used cuvettes to ensure their proper disposal.

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

 $chemicals; laboratory\ chemicals,\ consisting\ of\ or\ containing\ dangerous\ substances,\ including\ mixtures$

of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

14. Transport information

Land transport (ADR/RID)

Remarks (land transport)

Not subject to transport regulations.

Inland waterways transport

Remarks (inland waterways transport)

Not tested

Marine transport

Remarks (marine transport)

Not subject to transport regulations.

Air transport

Remarks (air transport)

Not subject to transport regulations.

15. Regulatory information

Labelling

Labelling according to EC-guidelines: Classification according to European directive on classification of

hazardous preparations 1999/45/EC.

Additional information on EC regulations

The product does not need to be labelled in accordance with EC directives or respective national laws.

National regulations

Water contaminating class : 2 - water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

35 Causes severe burns.

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.



according to 2001/58/EC

LCK 541 Nitrit/Nitrite, LCK 541 B, 2/2

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

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Use of the substance/preparation

Water analysis

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2. Composition/information on ingredients

Chemical characterization (preparation)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
213-791-2	7732-18-5	Water	< 80%	
201-069-1	5949-29-1	Citric acid monohydrate	< 20 %	Xi R36
231-448-7	7558-79-4	di-Sodium hydrogen phosphate	< 5 %	

Full text of each relevant R phrase can be found in heading 16.

3. Hazards identification

Classification

The product does not need to be labelled in accordance with EC directives or respective national laws.

4. First aid measures

General information

Take off all contaminated clothing immediately.

After inhalation

Move to fresh air.

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.





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After ingestion

Clean mouth with water and drink afterwards plenty of water.

Consult a physician. Show this safety data sheet to the doctor in attendance.

Advice to doctor

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Fire may liberate hazardous vapours.

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Personal precautions

Use personal protective equipment.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. Handling and storage

Handling

Advice on safe handling

Use only in well-ventilated areas. Do not breathe vapours/dust.

Storage

Requirements for storage rooms and vessels

Keep tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wash hands before breaks and after work.

Hand protection

Use barrier skin cream.

Chemical resistant protective gloves

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.





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Eve protection

Safety glasses with side-shields

Skin protection

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

9. Physical and chemical properties

General information

Physical state : liquid
Colour : colourless
Odour : odourless

Important health, safety and environmental information

Test method

2.5

Changes in the physical state

Flash point: not applicable
Lower explosion limits: not applicable
Upper explosion limits: not applicable
1,00 g/cm³
completely soluble

10. Stability and reactivity

Conditions to avoid

No dangerous reaction known under conditions of normal use.

Materials to avoid

oxidizing agents

11. Toxicological information

Acute toxicity

No data is available on the product itself.

Specific effects in experiment on an animal

No data is available on the product itself.

12. Ecological information

Ecotoxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

Advice on disposal

Our local agencies will accept used cuvettes to ensure their proper disposal.

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.





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Waste disposal number of used product

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chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

14. Transport information

Land transport (ADR/RID)

Remarks (land transport)

Not subject to transport regulations.

Inland waterways transport

Remarks (inland waterways transport)

Not tested

Marine transport

Remarks (marine transport)

Not subject to transport regulations.

Air transport

Remarks (air transport)

Not subject to transport regulations.

15. Regulatory information

Labelling

Labelling according to EC-guidelines: Classification according to European directive on classification of

hazardous preparations 1999/45/EC.

Additional information on EC regulations

The product does not need to be labelled in accordance with EC directives or respective national laws.

National regulations

Water contaminating class: 1 - slightly water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

36 Irritating to eyes.

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.